**Homework 63** Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Special Right Triangles: 30 – 60 - 90** Period:\_\_\_\_Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Failure to show all work and write in complete sentences will result in LaSalle!**

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| 1) Find the value of a and b. | 2) Find the value of f, g and h. |
| 3) Use the figure to the right to complete the table below. |  |
| 4) The side lengths of a triangle are given. Determine whether it is a *45°-45°-90° triangle,* a *30°-60°-90° triangle,* or *neither.*  a. 5, 10,  b. 6, 6, | |
| 5) You are using wood to build a pyramid-shaped skateboard ramp. You want each ramp surface to incline at an angle of 30° and the maximum height to be 56 centimeters as shown. | Use the relationships shown in the diagram to determine the approximate lengths of  *a:*  *b:*  *c:*  *d:* |